

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2015-3600
Application: Changes to TGAI or ISP Product Chemistry - Specifications
Product: VigorOx SP-15 Biocide
Registration Number: 26978
Active ingredients (a.i.): Hydrogen Peroxide, Peroxyacetic Acid
PMRA Document Number: 2723038

Purpose of Application

The purpose of this application was to amend the formulation of the integrated system product (ISP), VigorOx SP-15 Biocide, Reg. No. 26978 (formerly known as VigorOx SP-15 Paper System Biocide) which contains the active ingredients hydrogen peroxide and peroxyacetic acid.

Chemistry Assessment

Common Names: Hydrogen peroxide and Peroxyacetic acid
IUPAC* Chemical Names: Hydrogen peroxide and Ethaneperoxoic acid
CAS† Chemical Names: Hydrogen peroxide and Peroxyacetic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

VigorOx SP-15 Biocide has the following properties:

Property	Result
Colour and physical state	Colourless liquid
Nominal concentration	10% Hydrogen peroxide 15% Peroxyacetic acid
Odour	Sharp, pungent, vinegar-like odour
Density at 20°C	1.13-1.15 g/cm ³
Vapour pressure at 25°C	2.9 kPa
pH	< 1
Solubility in water	Completely miscible

Property	Result
n-Octanol/water partition coefficient	Log K_{ow} = -1.57 for hydrogen peroxide at pH 7 Log K_{ow} = -1.09 for peroxyacetic acid at pH 7

The required chemistry data for VigorOx SP-15 Biocide have been provided, reviewed, and found to be acceptable.

Health Assessments

The change in formulation of the ISP does not present any additional toxicological concerns.

Exposure assessments were not required for this application.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has determined that the amendment to the formulation of VigorOx SP-15 Biocide can be supported.

References

PMRA Document Number	Reference
2663606	2016, Batch Data, DACO: 2.13.3 CBI
2663307	2016, Assay for [CBI Removed] in 15% PAA by ICP, DACO: 2.13.4
2266577	2007, Requests for Waivers of Acute Toxicity Data Requirements, DACO: 4.2.1, 4.2.2, 4.2.3, 4.2.4, 4.2.5, 4.2.6

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